

CRAVINGS

**A PROJECT REPORT SUBMITTED IN PARTIAL
FULFILMENT OF REQUIREMENT
FOR THE AWARD OF THE DEGREE
MASTER OF COMPUTER APPLICATION(MCA)
OF
MAHATMA GANDHI UNIVERSITY, KOTTAYAM**

BY

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Reg No : 22PMC152



**MARIAN COLLEGE
KUTTIKKANAM**

(AUTONOMOUS)

MAKING COMPLETE

Marian College Kuttikkanam Autonomous

Peermade, Kerala – 685 531

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Under the guidance of

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Marian College Kuttikkanam Autonomous

MAHATMA GANDHI UNIVERSITY, KOTTAYAM

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CERTIFICATE

This is to certify that the project work entitled

CRAVINGS

is a bonafide record of work done by

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In partial fulfilment of the requirements for the award of Degree of

MASTER OF COMPUTER APPLICATIONS [MCA]

During the academic year 2022-2023

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SHARON SARAH JOSPEH

ABSTRACT

The Cravings Recipe App is a user-friendly platform created to simplify the process of discovering and exploring a wide variety of recipes. With an intuitive interface, users can easily search for recipes based on dietary preferences, explore chef profiles, and save their favourite recipes for future reference. The app provides a convenient and accessible platform for users to enhance their cooking experience by offering a diverse range of recipes, rating facility, and interactive features like download, add to favourites etc. Whether users are looking for vegetarian or non-vegetarian options, the Cravings app is a go-to destination for culinary inspiration and delightful cooking adventures.

OBJECTIVE AND SCOPE OF THE PROJECT

The main objective of developing the App is to provide users with a user-friendly and convenient platform for discovering, saving, and exploring a wide range of recipes. The app aims to enhance the cooking experience by offering personalized recommendations, interactive features, and an extensive collection of recipes.

The scope of the Cravings app project includes:

- Developing a responsive and intuitive web interface.
- Implementing features such as add recipe, filtering options, chef profiles, and user profile management.
- Allowing users to save favourite recipes, rate recipes, and download them.
- Providing a seamless and enjoyable user experience with easy navigation, clear recipe instructions, and appealing visuals.
- Ensuring 24/7 accessibility to the app from anywhere, allowing users to explore recipes and plan their meals at their convenience.

METHODOLOGY OF THE PROJECT

The 'Cravings App' is a project designed to assist users in managing their food cravings and exploring new culinary experiences. The app allows users to create personalized profiles by registering with their relevant details. With a user-friendly interface, the app offers a wide range of features to cater to different needs. Users can browse through a vast collection of recipes, create personalized recipe lists(favourites), and even rate the recipes. The app also includes a search functionality that enables users to find specific recipes based on ingredients or dietary preferences or based on the chef who published the recipes. The chefs have the privilege of add and modifying the recipes

The backend of the app utilizes Python and SQLite3 to store and retrieve data efficiently, while the front-end is designed to provide a visually appealing and intuitive user experience using HTML, CSS and Bootstrap. Django-Jazmin is used to visualize the Django admin.

HARDWARE SPECIFICATION:

- Processor: Intel Core i5
- Hard Disk:1TB
- Ram:8GB

SOFTWARE SPECIFICATION:

- Database server: Sqlite3
- Client: Microsoft Internet Explorer or any browser
- Development Tools:. Microsoft visual studio code
- Programming Language: Python

CONCLUSION

In conclusion, the Cravings app is a comprehensive and user-friendly platform designed to enhance the cooking and recipe discovery experience. With features such as recipe publishing, user ratings, filtering options, and profile management, the app caters to both chefs and users alike. The app's user-centric approach, intuitive interface, and potential future enhancements like personalized recommendations, social interactions, and smart device integration ensure that it stays relevant and continues to meet the evolving needs of cooking enthusiasts. With the Cravings app, users can explore a vast collection of recipes, connect with chefs, and elevate their culinary journey to new heights.

TABLE OF CONTENTS

1.INTRODUCTION

1.1	PROBLEM STATEMENTS.....	10
1.2	PROPOSED SYSTEM	10
1.3	FEATURES OF THE PROPOSED SYSTEM.....	11
2	FUNCTIONAL REQUIREMENTS... ..	12
3	NON-FUNCTIONAL REQUIREMENTS	14
4	UML DIAGRAMS	16
4.1	CLASS DIAGRAM	17
5	INPUT AND OUTPUT DESIGN	18
6	FUTURE ENHANCEMENT.....	20
7	CONCLUSION.....	23
8	REFERENCES.....	24
	ANNEXURE	26
	SCREENSHOTS	27

1.INTRODUCTION

1.1 PROBLEM STATEMENTS

In the existing system, users typically rely on traditional methods for managing and discovering recipes. This can include using physical recipe books, browsing through recipe websites or blogs, or relying on word-of-mouth recommendations. While these methods have been used for years, they have limitations and drawbacks when it comes to efficiency and user experience.

One of the primary challenges with the existing system is the time-consuming process of searching for specific recipes. Users may need to manually browse through recipe books or scroll through numerous web pages to find what they're looking for. This can be frustrating and inefficient, especially when searching for recipes based on specific criteria such as dietary preferences or cooking time.

Furthermore, there may be a lack of centralized management for recipe publishing, user ratings, and profile management. Chefs may face challenges in showcasing their recipes to a wider audience, and users may struggle to find reliable and verified recipes from trusted sources. Additionally, managing user accounts and profile information may be fragmented across multiple platforms, leading to a disjointed user experience.

Overall, the existing system for managing and discovering recipes faces challenges in terms of search efficiency, personalization, user engagement, and centralized management.

1.2 PROPOSED PROJECT

The proposed Cravings Recipe App offers a more streamlined and efficient approach to recipe management and discovery. It provides users with a user-friendly platform to explore a wide variety of recipes, save favourites etc. The proposed system also includes comprehensive profile management for both users and chefs, allowing them to update their information and track their cooking journey.

Furthermore, the proposed system allows chefs to publish their recipes, giving them a platform to showcase their culinary expertise. Users can give ratings, providing valuable

feedback to both chefs and other users. The app includes features such as filtering recipes based on dietary preferences (veg/non-veg), searching for specific chefs, and sharing recipes via various platforms.

Overall, the proposed Cravings Recipe App offers a more convenient, interactive, and personalized experience for users, enhancing their cooking journey and making recipe discovery more enjoyable and efficient.

1.3 FEATURES OF PROPOSED SYSTEM

- Both chef and users can register
- Chef can publish and modify recipe
- User and chef can edit their respective profiles
- Individual users can rate each recipe on a scale of 5
- Users can save their favourite recipes to easily access them later.
- User can download recipes
- User Feedback and Support

2.FUNCTIONAL REQUIREMENTS

1. User Registration and Authentication:

- Users should be able to create an account by providing their necessary information such as name, email, and password.
- User Login: Users should be able to log into their accounts using their registered email and password. The authentication process should validate the user's information and grant access to the app's features.

2. Recipe Filtering:

- Users should be able to filter recipes based on specific parameters such as dietary preferences(veg/non-veg), and chef name.
- Users should be able to view detailed information about each recipe, including the ingredients, cooking instructions, preparation time, and serving size.

3. Rating Management:

- Registered users should have the ability to rate recipes. They can provide a rating based on their satisfaction with the recipe, taste, presentation, or any other criteria. The rating system can be implemented using a star rating system (e.g., 1 to 5 stars).
- The app should calculate the average rating for each recipe based on the ratings provided by all users. This average rating represents the overall quality or popularity of the recipe. It can be displayed alongside the recipe details, providing users with an at-a-glance understanding of the recipe's reputation.

4. Profile Management:

- The app should allow chefs and users to create profiles where they can provide a bio, and chefs list their published recipes whereas users can view their saved recipes. Both chef and user have the ability to modify their profile details
- Patients should have the ability to provide ratings for hospital they have visited.

5. Favourites

- Users should have the option to save recipes to their favourites or bookmark them for quick access in the future.

6. Logout

3.NON FUNCTIONAL REQUIREMENTS

3.1 RELIABILITY

Reliability is an essential non-functional requirement for the App, ensuring consistent and dependable performance under various conditions. The app should be deployed on a stable and reliable infrastructure, including servers, databases, and hosting services. The infrastructure should have robust hardware and network components to minimize downtime and ensure continuous availability. The app should prioritize data integrity by employing appropriate measures such as data validation, data encryption, and regular backups.

3.2 AVAILABILITY

Availability is a crucial non-functional requirement for the recipe app, ensuring that the system remains accessible and operational for users whenever they need it. High availability minimizes downtime, ensures uninterrupted service, and contributes to user satisfaction. It means 24 X 7 availability.

3.3 MAINTAINABILITY

It ensuring that the system can be easily maintained, updated, and enhanced over time. A maintainable system is cost-effective to manage, allows for efficient bug fixes and updates, and supports future enhancements.

3.4 SUPPORTABILITY

The code and supporting modules of the system will be well documented and easy to understand. Online documentation and help system requirements.

4.UML DIAGRAMS

4.1 CLASS DIAGRAM



5.INPUT DESIGN AND OUTPUT DESIGN

INPUT DESIGN

Input design is one of the most important phase of the system design. Input design is the process where the input received in the system are planned and designed, so as to get necessary information from the user, eliminating the information that is not required. The aim of the input design is to ensure the maximum possible levels of accuracy and also ensures that the input is accessible that understood by the user.

OUTPUT DESIGN

Output design is very important concept in the computerized system, without reliable output the user may feel the entire system is unnecessary and avoids using it. The proper output design is important in any system and facilitates effective decision-making.

6.FUTURE ENHANCEMENT

6.FUTURE ENHANCEMENT

1. **Nutritional Information:** Include nutritional information for recipes, such as calorie count, macronutrient breakdown, and allergen information. This helps users make informed choices about the recipes they select based on their dietary needs.
2. **Personalized Recommendations:** Implement an intelligent recommendation system that suggests recipes based on user preferences, past interactions, and saved favorites. This can provide a personalized user experience and help users discover new recipes they may enjoy.
3. **Advanced Search and Filtering:** Enhance the search and filtering options to include more specific criteria, such as dietary restrictions (gluten-free, dairy-free), specific cuisines, or cooking techniques. This allows users to find recipes that align with their preferences and requirements.
4. **Meal Planning and Grocery List:** Integrate meal planning features, where users can create weekly or monthly meal plans by selecting recipes and generating a consolidated grocery list. This can help users streamline their cooking and shopping process.

9. CONCLUSION

9. CONCLUSION

In conclusion, the Cravings Recipe App is a comprehensive and user-friendly platform designed to cater to the needs of both chefs and users. It provides a seamless experience for chefs to publish and manage their recipes, while allowing users to explore, rate, and save their favourite recipes. The app's features, such as filtering options, user authentication, recipe rating, and profile management, enhance the overall usability and engagement of the app.

Through the use of technologies like Python, Django, and SQLite, the app ensures a stable and efficient backend system. The utilization of third-party libraries and frameworks facilitates the development process and enhances the app's functionality. Challenges encountered during development, such as implementing form validations, filtering recipes, and handling profile editing, were successfully addressed.

The proposed future enhancements, such as social sharing, meal planning, advanced search, and personalized recommendations, open up avenues for further growth and user satisfaction. Additionally, the app's reliability, security measures, and error handling contribute to a stable and trustworthy user experience.

Overall, the Cravings Recipe App is a valuable tool for both chefs and users, providing a platform to discover, create, and share culinary delights.

10.REFERENCES

REFERENCES

- Stack Overflow: <https://stackoverflow.com/>
- ChatGPT
- Django Jazzmin Documentation
- <https://themewagon.com/theme-tag/restaurant-template/>
- https://www.youtube.com/watch?v=t-EMinSz_Tk

11.ANNEXURE

11.ANNEXURE

REGISTRATION



REGISTER

 Name

 E-mail

 Password

 Confirm Password

Are You A Chef? ☐ YES ☐ NO

Upload Photo No file chosen

REGISTER

[Click Here To Login](#)

LOGIN



WELCOME

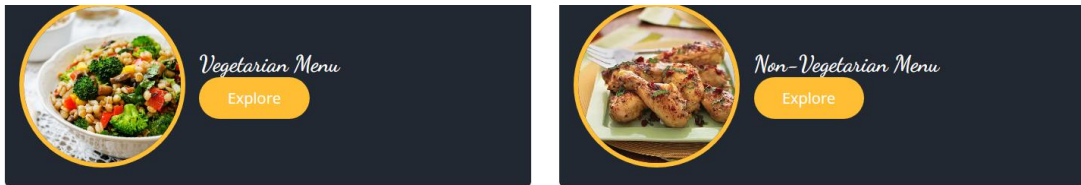
 Username

 Password

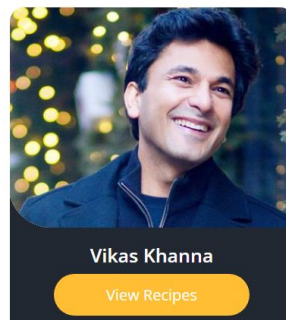
LOGIN

[Create New Account](#)

HOME PAGE



Chef's Corner





ADD RECIPE

The 'ADD RECIPE' form is set against a light blue background. On the left is a cartoon illustration of a chef with brown hair, wearing a white hat and a red scarf, holding a plate with a burger, fries, and vegetables, and giving a thumbs up. On the right is the form itself, titled 'ADD RECIPE' in bold. It contains the following fields:

- Recipe Name:** A text input field.
- Recipe Image:** A file upload section with a 'Choose File' button and the text 'No file chosen'.
- Ingredient:** A large text area for listing ingredients.
- Prep Time (minutes):** A text input field.
- No. of Serves:** A dropdown menu currently showing '1'.
- Veg/Non-Veg:** A dropdown menu currently showing 'Veg'.
- Recipe Description:** A text input field.

VIEW RECIPE

VIEW RECIPES

Prawn Roast
45 mins | 1 servings | Non-Veg

[Read More](#) [Edit](#) [Delete](#)

Chicken Fry
40 mins | 2 servings | Non-Veg

[Read More](#) [Edit](#) [Delete](#)

VEG/NON-VEG RECIPES


Veg Menu



Shahi Paneer
Rating: 4.0 ★


[Know More](#)

Non-Veg Menu



Prawn Roast
Rating: 3.0 ★

[Know More](#)



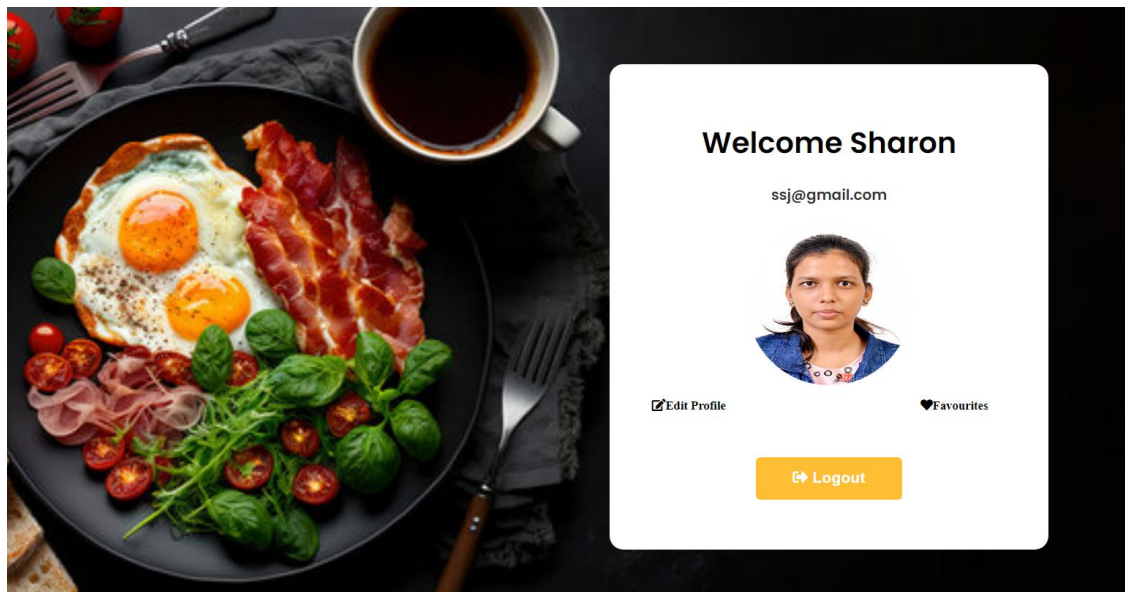
Chicken Fry
Rating: 3.0 ★

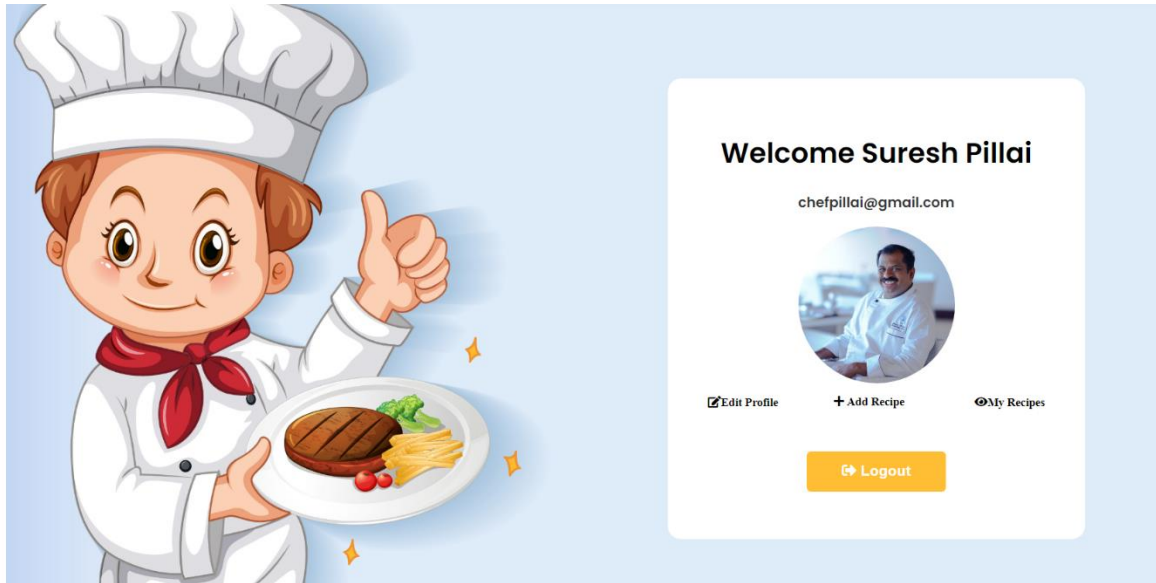
[Know More](#)

RATING/DOWNLOAD/FAVOURITES



PROFILE MANAGEMENT (CHEF & USER)





EDIT PROFILE



The image shows an "Edit Profile" form. On the left is a cartoon illustration of a chef with brown hair in a braid, wearing a white chef's hat and a pink bow, holding a wooden spoon. On the right is a light blue rounded rectangular panel. The panel has the title "Edit Profile". Below the title are two input fields: "NAME" with the value "Suresh Pillai" and "EMAIL" with the value "chefpillai@gmail.com". Below these is a "PROFILE IMAGE" section with a small square image of the chef and a "Choose File" button. To the right of the button is the text "No file chosen". At the bottom of the panel is a blue "UPDATE" button.

ADMIN

The screenshot displays the Admin Dashboard for the Recipe_App. The interface includes a sidebar with navigation links and a main content area with several sections.

Sidebar:

- Cravings
- admin
- Dashboard
- Authentication and Authorization
 - Groups
 - Users
- Recipe_App
 - Logins
 - Ratings
 - Recipes
 - Registrations
 - Saved recipes

Main Content Area:

Dashboard | Home > Dashboard

Authentication and Authorization

	Add	Change
Groups	Add	Change
Users	Add	Change

Recipe_App

	Add	Change
Logins	Add	Change
Ratings	Add	Change
Recipes	Add	Change
Registrations	Add	Change
Saved recipes	Add	Change

Recent actions

- sarah 4 hours, 38 minutes ago
- chappathi 5 hours, 6 minutes ago
- chappathi 5 hours, 6 minutes ago
- chappathi 5 hours, 6 minutes ago
- chappathi 5 hours, 6 minutes ago
- chappathi 5 hours, 6 minutes ago
- Suresh Pillai 1 day, 3 hours ago
- Changed Email.